

<b>AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE OF PAGES <b>1</b>   <b>5</b>	
Initials & Control Number:							
2. AMENDMENT/MODIFICATION NO. <b>N66604-02-R-5042-0001</b>		3. EFFECTIVE DATE <b>2002 AUG 14</b>		4. REQUISITION/PURCHASE REQ. NO. <b>N66604-2176-05N3</b>		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE <b>Commercial Acquisition Department, Building 11 Naval Undersea Warfare Center Division, Newport Code 591 Simonpietri Drive Newport, RI 02841-1708</b>		7. ADMINISTERED BY (If other than Item 6) CODE					
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(X)		9A. AMENDMENT OF SOLICITATION NO. <b>N66604-02-R-5042</b>	
				X		9B. DATED (SEE ITEM 11) <b>2002 JUNE 29</b>	
						10A. MODIFICATION OF CONTRACT/ORDER NO.	
						10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offers <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning <u>3</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
(X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO : (Specify authority)							
THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return 3 copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
<p>1. The closing date for this solicitation <u>is changed</u> to 2:00 PM (EST) <u>12</u> September 2002.</p> <p>2. In Block 7 on the face of the RFP the email address provided is for Ray Smith, the contract negotiator. The phone number is changed to the following: <u>401-832-5939</u></p> <p>3. In Block 8, the field for "Small Business" is also to be checked. This acquisition is set aside <u>100% For Small Business</u>.</p> <p>4. <b>L37 TECHNICAL PROPOSAL – SERVICES (OCT 2001)</b>, section (b)(2) change "ON-KEY PERSONNEL" to read "<u>NON-KEY PERSONNEL</u>". The number of proposed persons required for the Non-Key category of <b>Analyst I</b> is changed from 2 persons to <u>3</u> persons to correspond with the 28,000 Man-hours of this labor category.</p> <p>5. Questions have been asked regarding this solicitation. The following are the questions and their answers. The questions provided on the next pages are <b>NOT</b> verbatim. See following pages for questions and answers.  <b>NOTE: In order that any additional questions can be answered in a timely manner, any additional questions should be submitted not later than close of business on 28 AUG 02.</b></p>							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
POINT OF CONTACT: <b>Ray Smith Tel: 401-832-5939 Fax: 401-832-4820 E-mail: (Preferred) SMITHRD @npt.nuwc.navy.mil</b>							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
15B. CONTRACTOR/OFFEROR				15C. DATE SIGNED		16B. UNITED STATES OF AMERICA	
BY _____ (Signature of person authorized to sign)						BY _____ (Signature of Contracting Officer)	
16C. DATE SIGNED							

**Question 1.** Submission Requirements. Block 9 of Standard Form 1447 requires submission of sealed offers “and 2 copies,” whereas Clause L30(b)(1)(v) states that an original “plus 1 copy” is required for Volume II, Cost. Could the Government please clarify how many copies of its cost proposal an offeror is required to submit?

**Answer 1.** The one original and two copies referenced in Block 9 corresponds with the language found in L30(b)(1)(ii): “Original signed solicitation document with all the required fill-ins completed plus 2 copies ***Do not alter, disassemble, or punch holes in the solicitation document*** except to remove attached forms that must be completed and included in the proposal.”

The table in L30(b)(1)(v) requires submission of one original plus four copies of the Technical Proposal and one original and one copy of the Cost Proposal. These two submissions are distinct from the solicitation document referenced in L30(b)(1)(ii).

**Question 2. Program/Project Manager.** The education/experience requirements for this labor category (Personnel Qualifications Sheet (PQS) 1 of 18) is potentially confusing. These requirements could be interpreted that someone proposed in this labor category must have (a) a “Bachelor of Science in a discipline related to Engineering Sciences [and] a minimum of 10 years of combined general and specialized experience...”; or (b) a “Bachelor of Arts in a discipline related to Business Management [and] 5 years specific work experience related to submarine to submarine [sic] mission requirements...; or (c) an “Associates Degree...and 15 years of combined general and specialized experience...” Are these interpretations correct?

**Answer 2.** This PQS (and all similar PQS) should be interpreted as offering two possibilities. The “or” in the center of the page in essence cuts the page in half establishing two distinct ways of satisfying this requirement. The first way would be a BS with a minimum of 10 years of combined general and specialized experience. The second possibility would be an Associates Degree with 15 years experience.

**Question 3. Analyst I.** This labor category calls for a Bachelor’s degree with only 2 years of general/specialized experience. Given the relatively elementary nature of the specialized experience combined with the low number of years required, would the Government consider amending PQS (8 of 18) to allow for substitution of an Associate’s degree with a larger number of years of general/specialized experience (e.g., four)?

**Answer 3.** Agree. See revised PQS attached to this amendment, (page 8 of 18). (See also question and answer #10.)

**Question 4. Training Specialist II.** This labor category calls for a Bachelor’s or a Master’s degree in any discipline with 7 or 5 years of experience, respectively. Would the Government consider amending PQS (15 of 18) to allow for substitution of some combination of U.S. Navy Instructor training/curriculum development experience for a degree?

**Answer 4.** Agree. See revised PQS attached to this amendment, (page 15 of 18). (See also question and answer #12.)

**Question 5. Mechanical Technician III,** (Page 11 of 18) . This labor category (SCA Category 29083) permits qualification of personnel who are certified welders. However, the Department of Labor considers Welder to be

a separate occupation title with its own SCA rate, which is generally higher than that of Mechanical Technician -- as is the case in this solicitation. Would the Government consider adding the labor category of Welder to this solicitation and shifting some of the manhours allocated for Mechanical Technician III to the newly added labor category?

**Answer 5.** Welding certifications are removed. See revised PQS attached to this amendment (page 11 of 18).

**Question 6.** Labor Category **Program/Project Manager** requires experience which “must include at least 5 years of recent specialized experience related to Low Frequency (LF) (below 100 kHz) magnetic field EMI/EMC analysis, including problem resolution.” We believe the specificity of this requirement will severely and unnecessarily restrict competition. Since EMI/EMC Analysis is one sub-task in the much broader Statement of Work (encompassing Shipchecks, SHIPALTS/TEMPALTs, Hardware/Software and Firmware Design and Fabrication, Installations, Test & Evaluation, Certifications, Removals, Logistic Support, Field Engineering, Field Changes, Configuration Control, Installation Scheduling and Inventory Management and Quality Assurance), we request that this EMI/EMC-specific requirement be eliminated or that the required experience elements be broadened to include some minimum number of years of experience in one or more of any of the SOW tasks.

**Answer 6.** The proposed changes have been considered, but this requirement **remains UNCHANGED.**

**Question 7.** Labor Category **Engineer, Electrical/Electronics II** requires specialized experience in submarine communications, ESM or electromagnetic compatibility. We request that this requirement be broadened to “submarine Non-propulsion Electronic Systems (NPES).”

**Answer 7.** Agree. See revised PQS attached to this amendment (Page 2 of 18).

**Question 8.** Labor Category **Engineer, Systems II** requires specialized experience in at least two of the following: submarine communications, submarine ESM systems, low frequency EMC in submarine electromagnetic systems or submarine sensors. **Engineer, Systems IV** requires similarly-restrictive specialized experience. The SOW, by including fire control, SONAR, weapons, power distribution, etc, seems to acknowledge the ongoing evolution of the submarine into a fully integrated system. In recognition both of this integration and of the broader perspective required of the “systems” engineer (as opposed to electrical, mechanical, or materials engineer), we request that these specialized experience requirements be broadened to include “submarine Non-Propulsion Electronic Systems (NPES).”

**Answer 8.** Proposed changes considered, but this requirement **remains UNCHANGED.**

**Question 9.** Labor Category **Engineer Mechanical II**, requires specialized experience in submarine “electromagnetic” systems and components. Further, the specialized experience elements require eight years of specific experience in submarine communications or ESM systems. We request that these requirements be relaxed to include all submarine NPES.

**Answer 9.** Agree. See revised PQS attached to this amendment (Page 5 of 18).

**Question 10.** Labor Category **Analyst I** requires a Bachelor’s degree. In view of the Navy experience equivalency allowance in Key Labor category Analyst II, we request that a similar provision be added to

Analyst I; specifically that three additional years' experience in Navy Programs in the areas of the development and maintenance of inventory databases, development and implementation of financial data tracking procedures or the development of presentation materials be acceptable in lieu of the Bachelor's degree.

**Answer 10.** Agree. See revised PQS attached to this amendment, ( page 8 of 18). (See also question and answer #3.)

**Question 11.** Labor Category **Technician, Engineering III**, requires that the specialized experience be specifically in "electromagnetic systems." In view of the increasing integration of and interrelationship between components and subsystems of the submarine Non-Propulsion Electronic System, and due to the broader electronics curriculum now incorporated in Navy training and the tendency to increasingly cross-rate and combine electronics ratings (for example, electronics technicians, radiomen and electronic warfare specialists) we request that "electromagnetic systems" be changed where appearing to "non-propulsion electronic systems (NPES)."

**Answer 11.** Proposed changes considered, but this requirement **remains UNCHANGED.**

**Question 12.** Labor Category **Specialist, Training II** requires a bachelor's degree and seven years' experience in curriculum development (five years' with a master's degree). We request that relevant Navy training experience be accepted in lieu of the more restrictive "curriculum development." Further, in order to accommodate highly-skilled, but non-degreed subject-matter experts, we also request that an additional ten years' of relevant Navy experience be an acceptable substitute for the Bachelor's degree.

**Answer 12.** Agree. See revised PQS attached to this amendment (Page 15 of 18). (See also question and answer #4.)

**Question 13** A large business (would be a subcontractor) is considering teaming with a small business (would be a prime contractor) in responding to the above referenced RFP. The RFP contains in Section H13 Organizational Conflict of Interest (COI) - FAR 9.505-3, restrictions concerning future activities by the contractor which would result from a COI. Since the contract resulting from this solicitation is a task order vehicle, the large business/subcontractor can be isolated from task orders involving areas in which the large business/subcontractor has a COI by the prime contractor. It will be the Prime's responsibility to ensure that the large business/subcontractor does not provide services for which we have a particular conflict and it will be the large business/subcontractor responsibility to inform the Prime of any COI of which they may not be aware. The contractual arrangement between the Prime and the large business/subcontractor will include the necessary Organizational COI prohibitions and language to ensure that unbiased services are provided and thus the large business/subcontractor is not restricted from future activities.

Would this type of arrangement be sufficient so that the large business/subcontractor could participate in this teaming arrangement and if the team was awarded the contract and resulting task orders, provide the government services on task orders with no COI and not be restricted in future government sponsored activities?

**Answer 13.** This type of arrangement would likely be sufficient so that the large business/subcontractor could participate in the teaming arrangement. This arrangement must be fully identified and discussed in the technical proposal. **This answer in this solicitation amendment does not constitute approval of such a teaming arrangement.** Approval may only be granted by the Contracting Officer upon review of the full teaming agreement as presented in the technical proposal.

Such a teaming arrangement would presumably result in the large business/subcontractor not doing some portion of the work under this contract. The type of work that the large business/subcontractor **will and will not** be doing should be identified, as best possible. The prime contractor must also clearly identify who and how work that the large business/subcontractor is precluded from doing will be accomplished.

**Question 14.** In that the foregoing issues may delay offerors in preparing meaningful responses to this solicitation, and noting that the submission date falls on the heels of a Federal holiday (Labor Day), We respectfully requests that the Government consider extending the date for contractor submission of proposals by at least one week.

**Answer 14.** The closing date of this solicitation is changed to 2:00 EST on 12 September 2002.

## **5. SECTION J LIST OF ATTACHMENTS**

Attachment #2, Personnel Qualification Sheets, 18 pages, is hereby removed and replaced with Attachment #2 (rev. 1), 18 pages.

While all of Attachment #2 has been replaced with Attachment #2, (rev.1), changes have only been made to the seven (7) following PQS:

* Program/Project Manager	(Page 1)
Engineer, Electrical/Electronics II	(Page 2)
Engineer, Mechanical II	(Page 5)
Analyst I	(Page 8)
* Technician, Electrical/Electronics III	(Page 9)
Technician, Mechanical III	(Page 11)
Specialist, Training II	(Page 15)

\* The only change involves adding that experience may be acquired simultaneously.

**PERSONNEL QUALIFICATIONS SHEET**

Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

Title and Level	SCA Category	eCraft Code	Key	Non-Key
PROGRAM/PROJECT MANAGER		MANP1	X	

**Education:**

Bachelor of Science in a discipline related to Engineering Sciences or Bachelor of Arts in a discipline related to Business Management.

**Experience:**

For Engineering: A minimum of 10 years of combined general and specialized experience which must include at least 5 years of recent specialized experience related to Low Frequency (LF) (below 100 kHz) magnetic field EMI/EMC analysis, including problem resolution.

For Business Management: 5 years specific work experience related to submarine to submarine mission requirements and the relevance of electronic system EMI/EMC degradation. Must have had overall responsibility for accomplishing significant technical projects.

OR

**Education:**

Associates Degree in a discipline related to Engineering Sciences or Business Management.

**Experience:**

Fifteen 15 years of combined general and specialized experience which must include at least 5 years of recent specialized experience related to Low Frequency (LF) (below 100 kHz) magnetic field EMI/EMC analysis, including problem resolution. 5 years specific work experience related to submarine to submarine mission requirements and the relevance of electronic system EMI/EMC degradation. Must have had overall responsibility for accomplishing significant technical projects.

The professional and specialized experience requirements above may have been acquired simultaneously.

**OFFEROR is to complete information below:**

Name	Hours	Company and Location

TOTAL MAN-HOURS: 9,400

## Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

Bachelor's degree in Electrical/Electronics Engineering with three (3) years general professional experience in Submarine Electromagnetic Systems.

One (1) year of specialized experience that must have been attained within the last eight (8) years in at least one (1) of the following areas (qualifying experience consists of one (1) year or more in any single area):

- a. Submarine Non-Propulsion Electronic Systems
- b. Submarine Electromagnetic Compatibility

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

**OFFEROR is to complete information below:**

TOTAL MAN-HOURS:	28,000
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## Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

Bachelor's degree in an Engineering discipline with five (5) years general professional experience in systems engineering.

OR

Master's level degree in an Engineering discipline with three (3) years general professional experience in systems engineering.

### SPECIALIZED EXPERIENCE:

A total of three (3) years of specialized experience in Systems Design is required. This specialized experience must have been attained within the last eight (8) years in at least two (2) of the following areas (qualifying experience consists of one (1) year or more in any single area except where noted otherwise):

- a. Submarine Communications Systems
- b. Submarine ESM Systems
- c. Two (2) years experience with Low Frequency (less than 100 kHz) Magnetic Field Electromagnetic Compatibility in Submarine Electromagnetic Systems
- d. Submarine sensors

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

**OFFEROR is to complete information below:**

TOTAL MAN-HOURS:

Page 3 of 18



## Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

Bachelor's degree in an Engineering discipline with twelve (12) years general professional experience in systems engineering.

OR

Master's level degree in an Engineering discipline with eight (8) years general professional experience in systems engineering.

### SPECIALIZED EXPERIENCE:

Seven (7) years of specialized experience in: Project management, Systems Design, or Systems Acquisition. This specialized experience must have been attained within the last eight (8) years in at least one (1) of the following areas (qualifying experience consists of one (1) year or more in any single area):

- Submarine Communications Systems
- Submarine ESM Systems
- Submarine Electromagnetic Compatibility

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

**OFFEROR is to complete information below:**

TOTAL MAN-HOURS:

14,000

## Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

Bachelor's degree in Mechanical Engineering with three (3) years general professional experience.

### SPECIALIZED EXPERIENCE:

The individual must have had a minimum of three (3) years of specialized experience in mechanical design, packaging and interfacing of submarine electromagnetic systems and equipment. This specialized experience must have been attained within the last eight (8) years in Submarine Non-Propulsion Electronic Systems.

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

**OFFEROR is to complete information below:**

TOTAL MAN-HOURS:	14,000
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**PERSONNEL QUALIFICATIONS SHEET**

Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

Title and Level	SCA Category	eCraft Code	Key	Non-Key
ENGINEER, COMPUTER II		EC2		X

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

Bachelor's degree in a Computer discipline, Electrical/Electronics Engineering or Mathematics with field of concentration in computer science with three (3) years of general professional experience in computer design, software development or computer networks.

**SPECIALIZED EXPERIENCE:**

Three years of specialized experience must have been attained within the least eight (8) years of cumulative experience in at least one (1) of the following Submarine Electromagnetic Systems areas (qualifying experience consists of one (1) year or more in any two of the following areas):

- a. Navigation Computer Systems
- b. Platform Motion Compensation/Stabilization Computer Systems
- c. Combat Weapons Computer Systems
- d. Fire Control Computer Systems
- e. Communications Computer Systems
- f. Electronic Surveillance Measures Computer Systems
- g. Embedded Single Board Computer-based electronic systems or subsystems
- h. PC-based Local Area Networks

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

**Offeror is to complete information below:**

Name	Hours	Company and Location

TOTAL MAN-HOURS:

14,000

## Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

## Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

**EDUCATION/ (GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

OR

### SPECIALIZED EXPERIENCE:

- Microsoft Word
- Microsoft Excel
- Microsoft Power Point
- Microsoft Access
- Microsoft Project

AND

- Develop and maintain inventory databases
- Develop and implement financial data tracking procedures.
- Develop presentation materials.

**OFFEROR is to complete information below:**

TOTAL MAN-HOURS:

**PERSONNEL QUALIFICATIONS SHEET**

Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

Title and Level	SCA Category	eCraft Code	Key	Non-Key
TECHNICIAN, ELECTRICAL/ELECTRONICS III	29083	2908C	X	

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

Graduate of technical school with specialized training in electronics equivalent to Navy "C" school for an Electronic/Electrical Technician.

OR

Graduate of Navy Basic Electronic "A" Class School with specialized training in Navy "C" Class School or advanced training for an Electronic/Electrical Technician.

OR

Graduate of technical school with four (4) years work related experience in electrical/electronics systems.

**EXPECTED CAPABILITIES:**

Applies comprehensive technical knowledge to solve complex problems in working on electrical/electronic equipment. Work involves: a familiarity with the interrelations of circuits; and judgment in determining work sequence in selecting tools and testing instruments. Receives technical guidance from supervisor or higher-level technician. Work is reviewed for specific compliance with accepted practices and work assignments.

**SPECIALIZED EXPERIENCE:**

Three (3) years of cumulative specialized experience with U.S. Navy Submarine/Surface Ship Electromagnetic Systems/Equipment in three of the following areas:

- Research, development, and test.
- Evaluation of performance.
- Limited production.
- Installation, checkout, and certification.
- Troubleshooting, repair, and modification.
- Equipment/System removal.
- Strong background in the use of FFT/FTD signal analyzers.
- Formal training and recent experience to qualify as an Electromagnetic Compatibility Technician

The professional and specialized experience requirements above may have been acquired simultaneously.

OFFEROR is to complete information below:		
Name	Hours	Company and Location
TOTAL MAN-HOURS:		56,000

**PERSONNEL QUALIFICATIONS SHEET**

Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

Title and Level	SCA Category	eCraft Code	Key	Non-Key
TECHNICIAN, ELECTRICAL/ELECTRONICS IV	29084	2908D	X	

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

Graduate of technical school with specialized training in electronics equivalent to Navy "C" School for an Electronic Technician for Electronic/ESM or Communications equipment.

OR

Associate's degree in a technical or computer discipline with eight (8) years work related experience in electrical/electronics systems.

**EXPECTED CAPABILITIES:**

Applies advanced technical knowledge to solve unusually complex problems in working on electrical/electronic equipment. Work involves: a detailed understanding of the interrelationships of circuits; exercising independent judgment in performing such tasks as making circuit analyses; calculating wave forms; tracing relationships in signal flow and regularly using complex test instruments. Work may be reviewed by supervisor for general compliance with accepted practices. May provide guidance to lower level technicians.

**SPECIALIZED EXPERIENCE:**

Five (5) years of cumulative specialized experience with U.S. Navy Submarine/Surface Ship Electromagnetic Systems/Equipment in three of the following areas:

- Research, development, and test.
- Evaluation of performance.
- Limited production.
- Installation, checkout, and certification.
- Troubleshooting, repair, and modification.
- Removal.

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

OFFEROR is to complete information below:		
Name	Hours	Company and Location

TOTAL MAN-HOURS: 21,000

**PERSONNEL QUALIFICATIONS SHEET**

Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

Title and Level	SCA Category	eCraft Code	Key	Non-Key
TECHNICIAN, MECHANICAL III	29083	2908J		X

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

Technical school degree or equivalent Navy "C" school with four (4) years work related experience in mechanical design, fabrication, assembly or testing.

**EXPECTED CAPABILITIES:**

Develops and tests machinery and equipment. Reviews/verifies project instructions/blueprints to ANSI and military standards. Ascertains test specifications, procedures, objectives, equipment, nature of technical problems, and possible solutions. Devises, fabricates and assembles new or modified mechanical components or assemblies for products. Sets up and conducts tests of complete units and components under operational conditions. Analyzes and calculate test results in relation to design or rated specifications and test objectives, and modifies or adjusts equipment to meet specifications. Records test procedures, results, data and recommendations for changes.

**SPECIALIZED EXPERIENCE:**

Three (3) years of cumulative specialized submarine experience at sites physically separated from the employer's facilities (remote site operations) in at least three (3) of the following areas is required (qualifying experience consists of one (1) year or more in any single area):

- Installation of mini-fairings.
- Design, fabrication, modification, and installation of foundations to support equipment installations.
- Installation of electromagnetic systems/equipment including: Antennas, Communications, Electronic Surveillance Measures, or Electromagnetic Compatibility mitigation measures.

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

**OFFEROR is to complete information below:**

Name	Hours	Company and Location

TOTAL MAN-HOURS:

56,000



**PERSONNEL QUALIFICATIONS SHEET**

Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

Title and Level	SCA Category	eCraft Code	Key	Non-Key
TECHNICIAN, MECHANICAL IV	29084	2908K	X	

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

An Associate's degree in a technical discipline.

OR

Graduate of equivalent Navy "C" school with seven (7) years work-related experience in mechanical design, fabrication, assembly or testing at sites physically separated from the employer's facilities (remote site operations).

**EXPECTED CAPABILITIES:**

Develops and tests machinery and equipment. Reviews/verifies project instructions/blueprints to ANSI and military standards. Ascertains test specifications, procedures, objectives, equipment, nature of technical problems, and possible solutions. Devises, fabricates and assembles new or modified mechanical components or assemblies for products. Sets up and conducts tests of complete units and components under operational conditions. Analyzes and calculate test results in relation to design or rated specifications and test objectives, and modifies or adjusts equipment to meet specifications. Records test procedures, results, data and recommendations for changes.

**SPECIALIZED EXPERIENCE:**

Five (5) years of cumulative specialized experience in three (3) of the following areas is required (qualifying experience consists of one (1) year or more in any single area.

- Qualified Machinist, Welder (including HY-80) and Model Maker.
- Working knowledge of shipboard design drawings.
- Installation of mini-fairings or other external shipboard hull machinery and equipment requiring HY-80 welding.
- Design, fabrication, modification, and installation of foundations to support equipment installations.
- Install electromagnetic systems/equipment including: Antennas, Communications, Electronic Surveillance Measures and Electromagnetic Compatibility mitigation measures.
- Design, fabrication and modification of prototype and pre-production equipment.

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

**OFFEROR is to complete information below:**

Name	Hours	Company and Location

TOTAL MAN-HOURS: 28,000

## Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

## Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

## Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

Former US Navy Instructor/Master Training Specialist with ten (10) years of professional experience.

OR

A Bachelor's degree with seven (7) years of professional experience in curriculum development of which at least two years must be with US Navy curriculum development.

OR

A Master's degree with five (5) years of professional experience in curriculum development of which at least two years must be with US Navy curriculum development.

### SPECIALIZED EXPERIENCE:

Three (3) years of cumulative specialized experience in at least one (1) of the following areas is required (qualifying experience consists of one (1) year or more in any single area further) in the last eight (8) years:

- a. Non-Propulsion Electronic Systems
- b. Submarine Electromagnetic Compatibility

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

**OFFEROR is to complete information below:**

TOTAL MAN-HOURS:

21,000

**PERSONNEL QUALIFICATIONS SHEET**

Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-1208

Title and Level	SCA Category	eCraft Code	Key	Non-Key
<b>DRAFTER III</b>	<b>29063</b>	<b>29063</b>		<b>X</b>

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

Technical school graduate with five (5) years work related experience with a course in Computer Aided Design/Manufacture (CAD/CAM).

**EXPECTED CAPABILITIES:**

Prepares complete sets of complex drawings that include multiple views, detailed drawings and assembly drawings. Drawings include complex design features that require considerable drafting skill to visualize and portray. Assignments regularly require the use of mathematical formulas to compute weights, load capacities, dimensions, quantities of materials, etc. Working from sketches and verbal information supplied by an engineer or designer, determines the most appropriate views, detail drawings and supplementary information needed to complete assignments. Independently resolves most problems encountered. Supervisor or designer may suggest methods of approach on unusually difficult problems.

**SPECIALIZED EXPERIENCE:**

Three (3) years of cumulative specialized experience in the following areas is required (qualifying experience consists of one (1) year or more in any single area):

- Drafting and quality control check of electronic, electrical, and mechanical drawings, including complex design layouts.
- Analysis of detail and assembly drawings and operation of one or more computer-aided design systems.
- Application of ANSI standards, MIL-T-31000, DOD-STD-100, MIL-HDBK-288 and other military standards/specifications for preparation and review of industrial manufacturing and production engineering drawings and Navy submarine shipboard permanent and temporary (SHIPALT and TEMPLAT) installation drawings.
- Submarine shipboard electrical, electronic and mechanical and interface equipment.

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

**OFFEROR is to complete information below:**

Name	Hours	Company and Location

TOTAL MAN-HOURS: 14,000

## Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

TOTAL MAN-HOURS:	21,000
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**PERSONNEL QUALIFICATIONS SHEET**

Requisition No. N66604-2176-05N3

Solicitation No. N66604-02-R-5042-0001

Title and Level	SCA Category	eCraft Code	Key	Non-Key
WORD PROCESSOR III	01613	01613		X

**EDUCATION/(GENERAL/PROFESSIONAL/WORK-RELATED) EXPERIENCE:**

High school/vocational school diploma or GED certificate with two (2) years work related experience.

**EXPECTED CAPABILITIES:**

Operates word processing equipment to enter, store, retrieve, change and present text or tabulations. Work at this level requires considerable training and may involve working directly with the task originator rather than through supervisor. Duties include one or more of the following: uses the more sophisticated features of the equipment to carry out complex assignments; applies knowledge of specialized terminology or foreign language; tests new applications and procedures; or trains lower level processors. Experience in developing business correspondence, maintaining data files, proofreading, processing and mailing correspondence. Convert alphabetic, numeric, and symbolic data into coded form on punch cards or reels of magnetic or paper tape. Type computer programs from worksheet, and inputs data into machine. Proofread copy and correct errors.

**SPECIALIZED EXPERIENCE:**

Two (2) years of cumulative specialized experience in at least two (2) of the following areas is required (qualifying experience consists of one (1) year or more in any single area):

- a. Microsoft Word
- b. Microsoft Excel
- c. MacDraw
- d. Form Maker
- e. PageMaker

The general/professional/work-related and specialized experience requirements above may have been acquired simultaneously.

**OFFEROR is to complete information below:**

Name	Hours	Company and Location

TOTAL MAN-HOURS: 28,000